

IN THE CLAIMS:

The text of all pending claims, (including withdrawn claims) is set forth below. Cancelled and not entered claims are indicated with claim number and status only. The claims as listed below show added text with underlining and deleted text with ~~striketrough~~. The status of each claim is indicated with one of (original), (currently amended), (cancelled), (withdrawn), (new), (previously presented), or (not entered).

Please AMEND claim 13 and ADD new claim 14 in accordance with the following:

1. (PREVIOUSLY PRESENTED) A program product comprising a trouble management program recorded on a computer readable medium, said trouble management program controlling a server computer, connected to maker-sided devices of makers providing software or hardware components configuring a computer system and connectable to terminal devices of users utilizing said components, to execute:
 - a first storing step of storing case data containing a description of a trouble and a troubleshooting procedure;
 - a step of accepting, when said server computer receives from said terminal device a notification that the trouble occurs, trouble data containing a description of the trouble from said terminal device;
 - a step of searching for the case data in which the description of this trouble is coincident with the description of trouble in the trouble data;
 - a first transmitting step of transmitting, if the case data is specified in said searching step, the troubleshooting procedure in the specified case data to said terminal device;
 - a second transmitting step of transmitting, if the case data is not specified in said searching step, new notification data containing the description of the trouble and indicating that the trouble occurred afresh to said maker-sided device, said new notification data being transmitted according to data related to a maker;
 - a step of obtaining answer data containing a troubleshooting procedure corresponding to the new notification data from said maker-sided device;
 - a second storing step of storing the troubleshooting procedure contained in the answer data obtained in said obtaining step and the description about the corresponding trouble as new case data; and
 - a third transmitting step of transmitting the troubleshooting procedure in the case data stored in said second storing step to said terminal device.

2. (PREVIOUSLY PRESENTED) The program product according to claim 1, wherein the trouble data contains using component information indicating a component used by the user when the trouble occurs;

the case data contains related component information indicating a component related to the trouble;

said trouble management program controls said server computer to further execute a third storing step of storing maker data uniquely related to the maker and containing provided-component information indicating the component provided by the maker;

said second transmitting step transmits the new notification data containing using component information in the trouble data to only said maker-sided device of the maker related to the maker data containing the provided-component information corresponding to the component indicated by the using component information in the trouble data;

said obtaining step obtains the answer data from said maker-sided device to which the new notification data has been transmitted in said second transmitting step;

said second storing step stores the new case data including the related component information which indicates only the component related to the trouble, the relation to the trouble being analyzed based on the answer data obtained in said obtaining step.

3. (PREVIOUSLY PRESENTED) The program product according to claim 2, wherein said trouble management program controlling said server computer to further execute:

a step of specifying the maker data which contains the provided-component information corresponding to the related component information in the new case data;

a step of acquiring consideration data showing a consideration for the new notification data from said maker-sided device of the maker related to the maker data specified in said specifying step; and

a step of calculating an information providing fee paid to the user on the basis of the consideration data acquired in said acquiring step.

4. (PREVIOUSLY PRESENTED) The program product according to claim 2, wherein said trouble management program controlling said server computer to further execute:

a step of extracting the case data containing the related component information corresponding to the provided-component information in the maker data with respect to each maker; and

a step of generating maker-oriented data for each maker on the basis of the extracted case data.

5. (PREVIOUSLY PRESENTED) A trouble information management method actualized by a server computer connected to maker-sided devices of makers providing software or hardware components configuring a computer system and connectable to terminal devices of users utilizing said components, comprising:

a first storing step of storing case data containing a description of a trouble and a troubleshooting procedure;

a step of accepting, when said server computer receives from said terminal device a notification that the trouble occurs, trouble data containing a description of the trouble from said terminal device;

a step of searching for the case data in which the description of this trouble is coincident with the description of trouble in the trouble data;

a first transmitting step of transmitting, if the case data is specified in said searching step, the troubleshooting procedure in the specified case data to said terminal device;

a second transmitting step of transmitting, if the case data is not specified in said searching step, new notification data containing the description of the trouble and indicating that the trouble occurred afresh to said maker-sided device, said new notification data being transmitted according to data related to a maker;

a step of obtaining answer data containing a troubleshooting procedure corresponding to the new notification data from said maker-sided device;

a second storing step of storing the troubleshooting procedure contained in the answer data obtained in said obtaining step and the description about the corresponding trouble as new case data; and

a third transmitting step of transmitting the troubleshooting procedure in the case data stored in said second storing step to said terminal device.

6. (PREVIOUSLY PRESENTED) The method according to claim 5, wherein the trouble data contains using component information indicating a component used by the user when the trouble occurs;

the case data contains related component information indicating a component related to the trouble;

further comprising a third storing step of storing maker data uniquely related to the maker

and containing provided-component information indicating the component provided by the maker;

said second transmitting step transmits the new notification data containing using component information in the trouble data to only said maker-sided device of the maker related to the maker data containing the provided-component information corresponding to the component indicated by the using component information in the trouble data;

said obtaining step obtains the answer data from said maker-sided device to which the new notification data has been transmitted in said second transmitting step;

said second storing step stores the new case data including the related component information which indicates only the component related to the trouble, the relation to the trouble being analyzed based on the answer data obtained in said obtaining step.

7. (PREVIOUSLY PRESENTED) The method according to claim 6, further comprising:

a step of specifying the maker data which contains the provided-component information corresponding to the related component information in the new case data;

a step of acquiring consideration data showing a consideration for the new notification data from said maker-sided device of the maker related to the maker data specified in said specifying step; and

a step of calculating an information providing fee paid to the user on the basis of the consideration data acquired in said acquiring step.

8. (PREVIOUSLY PRESENTED) The method according to claim 6, further comprising:

a step of extracting the case data containing the related component information corresponding to the provided-component information in the maker data with respect to each maker; and

a step of generating maker-oriented data for each maker on the basis of the extracted case data.

9. (PREVIOUSLY PRESENTED) A trouble information management system, comprising:

a server computer connected to maker-sided devices of makers providing software or hardware components configuring a computer system and connectable to terminal devices of

users utilizing said components; and

a computer readable medium containing a trouble information management program which controls said server computer to execute:

a first storing step of storing case data containing a description of a trouble and a troubleshooting procedure;

a step of accepting, when said server computer receives from said terminal device a notification that the trouble occurs, trouble data containing a description of the trouble from said terminal device,

a step of searching for the case data in which the description of this trouble is coincident with the description of trouble in the trouble data,

a first transmitting step of transmitting, if the case data is specified in said searching step, the troubleshooting procedure in the specified case data to said terminal device,

a second transmitting step of transmitting, if the case data is not specified in said searching step, new notification data containing the description of the trouble and indicating that the trouble occurred afresh to said maker-sided device, said new notification data being transmitted according to data related to a maker;

a step of obtaining answer data containing a troubleshooting procedure corresponding to the new notification data from said maker-sided device,

a second storing step of storing the troubleshooting procedure contained in the answer data obtained in said obtaining step and the description about the corresponding trouble as new case data, and

a third transmitting step of transmitting the troubleshooting procedure in the case data stored in said second storing step to said terminal device.

10. (PREVIOUSLY PRESENTED) The system according to claim 9, wherein the trouble data contains using component information indicating a component used by the user when the trouble occurs;

the case data contains related component information indicating a component related to the trouble;

said trouble management program controls said server computer to further execute a third storing step of storing maker data uniquely related to the maker and containing provided-component information indicating the component provided by the maker;

said second transmitting step transmits the new notification data containing using component information in the trouble data to only said maker-sided device of the maker related

to the maker data containing the provided-component information corresponding to the component indicated by the using component information in the trouble data;

said obtaining step obtains the answer data from said maker-sided device to which the new notification data has been transmitted in said second transmitting step;

said second storing step stores the new case data including the related component information which indicates only the component related to the trouble, the relation to the trouble being analyzed based on the answer data obtained in said obtaining step.

11. (PREVIOUSLY PRESENTED) The system according to claim 10, wherein said trouble management program controlling said server computer to further execute:

a step of specifying the maker data which contains the provided-component information corresponding to the related component information in the new case data;

a step of acquiring consideration data showing a consideration for the new notification data from said maker-sided device of the maker related to the maker data specified in said specifying step; and

a step of calculating an information providing fee paid to the user on the basis of the consideration data acquired in said acquiring step.

12. (PREVIOUSLY PRESENTED) The system according to claim 10, wherein said trouble management program controlling said server computer to further execute:

a step of extracting the case data containing the related component information corresponding to the provided-component information in the maker data with respect to each maker; and

a step of generating maker-oriented data for each maker on the basis of the extracted case data.

13. (CURRENTLY AMENDED) A method for managing computer problems, comprising:

searching for trouble using a trouble component field and a plurality of related component fields as search keys wherein said component field and said plurality of related component fields identify programs; and

when said searching fails to discover said trouble, electronically notifying at least one device of said trouble based on data identifying a manufacturer.

14. (NEW) A method for managing computer problems, comprising:
 - transmitting a notification including new trouble unspecified in a trouble record including a trouble component field and a plurality of related component fields, said trouble component field and said plurality of related component fields identifying programs; and
 - receiving a response including a solution for the new trouble.